## ABSTRACT

Device enabling different spreading factors whilst preserving a common scrambling code, in particular for transmission in a code division multiple access cellular mobile radio system, the device including, on transmission, for spreading K incoming sequences by means of K respective spreading codes of respective length Qk (k=1, ..., K) which is a sub-multiple of a maximum length  $Q_{MAX}$ , and scrambling the spread sequences obtained in this way:

- means for grouping the various data symbols of the kth incoming sequence (k=1,  $\sim$ , K) into different blocks of  $Q_{MNX}/Q_k$  symbols.
- means for spreading the blocks from the kth incoming sequence (k=1, ..., K) by means of the corresponding code of length  $Q_k$  to obtain a spread sequence including different spread blocks of length  $Q_{\text{max}}$ ,
- $\bullet$  means for scrambling each of the K spread sequences obtained in this way using a scrambling code of length  $Q_{\text{MAX}}$

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